


IL NUOVO CIMENTO

INDICI
DEL VOLUME VI - SERIE X
1957

PRINTED IN ITALY



Digitized by the Internet Archive
in 2024

INDICE SISTEMATICO

PER NUMERI SUCCESSIVI DEL PERIODICO

N. 1 - 1° Luglio 1957

D. C. PEASLEE - Vectorial Charge Displacement	pag. 1
E. A. POWER and S. ZIENAU - On the Radiative Contributions to the Van der Waals Force	» 7
I. R. WILLIAMS and M. W. JOHNS - The Decay of ^{165}W	» 18
H. KÜMMEL - Ein Störungstheoretischer Zugang zu der Bruecknerschen Theorie des Atomkerns und der Watsonschen Streunäherung	» 23
R. LEVI SETTI and W. SLATER - Probable Nuclear Interaction of a Hydrogen Hypernucleus	» 51
P. H. FOWLER, P. S. FREIER, C. M. G. LATTES, E. P. NEY and S. J. ST. LO- RANT - Angular Correlation in the π - μ -e Decay of Cosmic Ray Mesons	» 63
J. TIOMNO - On the Theory of Hyperons and K-Mesons	» 69
M. BALDO-CEOLIN, A. BONETTI, W. D. B. GREENING, S. LIMENTANI, M. MERLIN and G. VANDERHAEGHE - An Analysis of 419 τ -Meson Decays	» 84
D. BRINI, L. PELI, O. RIMONDI and P. VERONESI - On the Azimuthal Distribution of K Photoelectrons by Polarized Photons	» 98
L. JÁNOSSY - On the Classical Fluctuation of a Beam of Light	» 111
A. G. BARKOW, B. CHAMANY and R. E. MCDANIEL - Thin-Down and Breakup of a Large Z Cosmic Ray Primary	» 125
M. BALDO-CEOLIN, C. C. DILWORTH, W. F. FRY, W. D. B. GREENING, H. HUZITA, S. LIMENTANI and A. E. SICHIOLO - Nuclear Interactions of Neutral K-Mesons of Long Lifetime	» 130
M. BALDO-CEOLIN, W. F. FRY, W. D. B. GREENING, H. HUZITA and S. LIMEN- TANI - The Decay of a Σ^+ Hyperon-Proton Fragment	» 144
G. TORALDO DI FRANCIA - On a Macroscopic Measurement of the Spin of Electromagnetic Radiation	» 150
S. GALLONE, G. M. PROSPERI and A. SCOTTI - Evaluation of Nuclear Fusion Probability in Mesic Molecules	» 168
H. S. VALK - Contribution to Elastic Scattering from Inelastic Processes: Application to High-Energy Electron Scattering from Hydrogen and Deuterium	» 173
S. WATANABE - « Handed » Particle of Spin $\frac{1}{2}$ with Finite Mass and Finite Charge	» 187
R. FIESCHI - Electronic States of Diatomic Molecules: the Lithium Molecule	» 197
W. PAULI - On the Conservation of the Lepton Charge	» 204

Note Tecniche:

- M. H. BRENNAN - The Response of a Liquid Scintillation Counter to Extensive Air Showers of Low Density. pag. 216

Lettere alla Redazione:

- D. IVANENKO and H. SOKOLIK - Unified Description of Ordinary and Isotopic Space » 226
 M. L. ABROL - Nature of « p » in Bonnor's Unified Field Theory » 230
 J. M. DICKSON and D. C. SALTER - The Elastic and Inelastic Scattering of Polarized Protons by Carbon » 235
 G. BIORCI and D. PESCEtti - Formal Model of Magnetic Hysteresis . . » 242
 M. NAMIKI and C. ISO - Multiple Production of Particles and Hydrodynamical Aspect of Quantum Theory of Field » 245
 C. P. ENZ - Fermi Interaction with Non-Conservation of « Lepton Charge » and of Parity » 250
 J. TIOMNO - Note on the Gamma Decay of Neutral Pions » 255
 R. WEINER - Nuclear Isomeric Shift on Spectral Lines » 257
 Libri ricevuti e Recensioni » 258

N. 2 - 1° Agosto 1957

- D. AMATI and B. VITALE - Low Energy \bar{K} -Nucleon Scattering pag. 261
 D. L. PURSEY - Invariance Properties of Fermi Interactions » 266
 L. CAVALCA, M. NARDELLI e L. COGHI - La struttura del cloruro di (di)acetamide-cadmio » 278
 L. L. GOLDIN and D. G. KOŠKAREV - Linear Theory of Synchrotron Oscillations. - II. Particle Losses During Acceleration and Tolerance Theory . . » 286
 A. BISI, E. GERMAGNOLI and L. ZAPPA - The Orbital Electron Capture Decay of ^{185}Os » 299
 S. HORI and A. WAKASA - Individual Mass Reversal and Parity Non-Conservation » 304
 D. FOURNET-DAVIS, A. ENGLER, C. J. GOEBEL, T. F. HOANG, M. F. KAPLON and J. KLARMANN - Observations on the $\pi^+ \rightarrow \mu^+ \rightarrow e^+$ Angular Correlation in Nuclear Emulsion » 311
 H. LEHMANN, K. SYMANZIK and W. ZIMMERMANN - On the Formulation of Quantized Field Theories - II. » 319
 F. W. BULLOCK, C. DODD, C. HENDERSON and G. KALMUS - Operating Characteristics of a Gas-Liquid Bubble Chamber » 334
 M. VERDE - The High Energy Limit of the Potential Scattering. - I. Non Relativistic Kinematics » 340

Note Tecniche:

- E. FIORINI, R. GIACCONI, A. E. SICHIROLLO and C. SUCCI - Osservazioni sul funzionamento di una camera di Wilson con surcompressione . . . » 355

Lettere alla Redazione:

M. SKORKO and E. SKORKO - The Model of the Electron	pag. 364
R. GATTO and R. D. TRIPP - On the Question of Possible Charge Properties of Weak Interactions	» 367
Y. TAKAHASHI - On the Generalized Ward Identity	» 371
H. ÜBERALL - Polarization of Electrons from μ -e Decay	» 376
J. BLOK and C. C. JONKER - Comparison between the Proton Energy Spectra of (n, p) and (d, p) Reactions	» 378
P. BUDINI, N. DALLAPORTA and L. FONDA - Pion-Nucleon S-Waves and K-Mesons	» 380
N. NAKANISHI - A Systematization of Weak Interactions	» 383
F. FERRERO, R. MALVANO and C. TRIBUNO - Evidence of a Second Maximum in the Cross-Section for Fast Photoneutron Emission in Cr, As, I, Ta	» 385
T. TIETZ - On the Variation of the Diamagnetic Susceptibility of Water due to Temperature	» 387
D. J. CANDLIN - Time Reversal and the Decay of the μ -Meson	» 390
R. PAPPALARDO - The Optical Absorption of $\text{Ni}^{2+} \cdot 6\text{H}_2\text{O}$ at Low Temperatures	» 392
D. AMATI and B. VITALE - Information on the Nature of Heavy Mesons from Photoproduction Experiments	» 395
H. NARUMI and S. MATSUO - A Note Concerning the Electric Hexadecapole Moment of the First Excited ^{111}Cd Nucleus	» 398
P. SEN - A Gauge Invariant Lagrangian for a Non-Local Electrodynamics	» 403
R. R. HILLIER and C. J. WADDINGTON - On Heavy Primary Cascades	» 400
A. TOMASINI - Multiple Emission in Nuclear Reactions	» 404
<i>Libri ricevuti e Recensioni</i>	» 408

N. 3 - 1° Settembre 1957

R. WEILL, M. GAILLOUD et PH. ROSSELET - Mesure de l'énergie des paires d'électrons de plus de 1 GeV dans les émulsions nucléaires	pag. 413
C. CEOLIN and L. TAFFARA - Non-Adiabatic Treatment of the Scattering of K^+ -Mesons by Nucleons	» 425
B. BHOWMIK, D. EVANS, S. NILSSON, D. J. PROWSE, F. ANDERSON, D. KEEFE, A. KERNAN and J. LOSTY - The Interactions of Positive K-Mesons with Nuclei in Photographic Emulsion at Energies in the Region $0 \div 130$ MeV	» 440
G. ALEXANDER, R. H. W. JOHNSTON and C. O'CEALLAIGH - The Relative Frequencies of the Decay Modes of Positive K-Mesons and the Decay Spectra of Modes $\text{K}_{\mu 3}$, τ' and K_β	» 478
A. MINGUZZI - Non Linear Effects in the Vacuum Polarization - II	» 501
E. ZAGLIO - High Sensitivity Transistor Pulse Trigger Circuit	» 512
D. H. WILKINSON - The π - μ -e Asymmetry	» 516
C. B. VAN WYK - Charge Conjugation and Angular Momentum	» 522
H. ÜBERALL - Angular Distribution of Neutrons from μ^- Absorption in Nuclei	» 533
S. OKUBO - Anomalous Magnetic Moment of the Nucleon	» 542
H. YAGODA - Anomalous Heavy Primary Cascades Recorded on Viking 10 Rocket Flight	» 559

W. ALLES, N. N. BISWAS, M. CECCARELLI and J. CRUSSARD - Nuclear Collisions of Negative K-Mesons	pag. 571
F. FERRERO, A. O. HANSON, R. MALVANO and C. TRIBUNO - Photoprotons from ^{101}Mo	» 585
T. BOWEN, D. M. HASKIN and M. SCHEIN - Examples of K-Meson Production in 3 GeV π^- -Collisions	» 592
S. FRANCHETTI - Simple Treatment of Central Force Collisions with Particular Reference to Phase Shift Calculation	» 601
D. S. SAXON and L. I. SCHIFF - Theory of High-Energy Potential Scattering	» 614
T. KANKI - Theory of Scattering in the Quantized Field and Low-Chew-Wick's Formalism	» 628
P. T. MATTHEWS - The Parity of Elementary Particles	» 642
B. T. FELD - Isotopic Spin Selection Rules and Parity Non-Conservation in the Decay of the Strange Particles	» 650
W. E. FRAHN and R. H. LEMMER - Non-Static Effects on Individual Nucleons in a Spheroidal Potential	» 664
J. S. LANGER - Strange-Particle Effects in S-Wave Pion-Nucleon Scattering	» 674
S. DE BENEDETTI, U. FARINELLI, F. FERRERO, R. MALVANO, G. PELLI and C. TRIBUNO - A Short Lived Isomeric State of ^{218}Bi	» 682
A. AGODI and M. CINI - Charge Dependent Corrections to Dispersion Relations - II	» 686
B. H. BRANDEN and R. G. MOORHOUSE - Approximate Methods in S-Wave Pion Nucleon Scattering	» 693
I. FILOSOFO - A Čerenkov Counter as High Energy Photon Spectrometer	» 701
P. BOCCHIERI e E. MONTALDI - Sull'operatore hamiltoniano delle teorie beta	» 710

Note Tecniche:

P. J. GROUSE and H. D. RATHGEBER - Counting Rate Curves for Geiger Counters and their Geometry	» 719
M. VARIČÁK - Experiments in the Use of Thermistors for low Pressure-Measurements	» 723
A. CARRELLI and F. PORRECA - Information on a 2.5 MeV Microtron	» 729

Lettere alla Redazione:

D. A. TIDMAN and K. W. OGILVIE - Counting Rate of Cosmic Ray Counter Telescopes in Inclined Directions	» 735
R. C. KUMAR - Measurement of Ionization on Dipping Tracks in Nuclear Emulsion	» 739
A. CAMBIERI e R. PAPPALARDO - Backscattering dei positroni del ^{22}Na	» 743
A. LUNDBY, A. P. PATRO and J. P. STROOT - Correlation between Circularly Polarized γ -Rays and β -Particles	» 745
C. J. WADDINGTON - A Correlation to Previously Quoted Cosmic Ray Flux Values	» 748
G. DELL'ANTONIO and F. DUIMIO - On the Ruijgrok-Van Hove Model	» 751
B. BERTOTTI - A Remark on the Paper « Gravitational Motion and Hamilton's Principle »	» 755

N. 4 - 1° Ottobre 1957

M. GOURDIN et A. MARTIN - Interaction non locale séparable et matrice de collision	pag. 757
R. OMNES - Production en paire des mésons positifs par un méson	» 780
S. DEUTSCH, P. KIPFER and E. PICCIOTTO - Pleochroic Haloes and the Artificial Coloration of Biotites by α Particles	» 796
M. HUYBRECHTS - Théorie statistique du comptage de particules alpha émises par des désintégrations successives d'éléments radioactifs	» 811
Y. POC KWON, J. ÔBA and T. GOTÔ - Phenomenological Consideration on the Hyperfragments	» 832
H. HUZITA - On the Analysis of the Cosmic Ray Jets	» 841
G. PASSATORE - On Polarization Effects in Coulomb Electron Scattering	» 850
J. C. POLKINGHORNE - On the Strong Interactions	» 864
U. FASOLI, I. MODENA, E. POHL and J. POHL-RÜLING - The Differential and Directional Positive Excess of Mesons at sea Level	» 869
R. H. MILLER - Inelastic Scattering of 150 MeV Negative Pions by Carbon and Lead.	» 882
J. TIOMNO - Non-Conservation of Parity and the Universal Fermi Interaction	» 912
F. PORRECA - On the Phase Grating in Suspensions Crossed by Ultrasounds	» 917
C. HENDERSON and G. KALMUS - Correlation of Gas Bubble Chamber Results with Glaser's Theory	» 925
A. TOMASINI - Potential Inelastic Scattering by Complex Nuclei	» 927
C. GIORI e C. SUCCI - Urto nucleare elastico di positroni da 2 MeV in argon	» 937

Note Tecniche:

U. AMALDI jr. - Sugli impulsi prodotti dai raggi cosmici nei fotomoltiplicatori	» 946
S. DEUTSCH et E. PICCIOTTO - Effacement des alpha dans les plaques Ilford C 2	» 953
R. R. BROWN - Neutron Yield Functions for the Nucleonic Component of Cosmic Radiation	» 956
E. FIORINI, R. GIACCONI e C. SUCCI - Una nuova camera di Wilson di grandi dimensioni	» 963

Lettere alla Redazione:

D. BLANC - Influence de la longueur efficace et du diamètre du cylindre sur la courbe de palier des compteurs de Geiger-Müller à parois de verre et graphitage externe	» 974
S. YAMAGUCHI - An Experiment for Polarization of Free Electrons	» 977
S. HASEGAWA, J. NISHIMURA and Y. NISHIMURA - On the Angular Distribution of Secondary Particles of High Energy Jet Showers	» 979
J. SAWICKI and J. SZYMANSKI - Polarization Effects in Beta Decay Accompanied by Internal Bremsstrahlung	» 982
Y. NOGAMI - On the Charge Distribution of the Nucleon	» 985

G. JONA LASINIO and G. C. MONETI - The Liquid Helium Bubble Chamber as Analyzer of Proton Polarization.	pag. 989
C. BALLARIO, R. BIZZARRI, B. BRUNELLI, A. DE MARCO, E. DI CAPUA, A. MICHELINI, G. C. MONETI, E. ZAVATTINI and A. ZICHICHI - Life Time Estimate of Λ^0 and θ^0 Particles	» 994
B. FERRETTI - On Gauge Invariance of Second Kind	» 997
B. FERRETTI - On the Conservation of Lepton Number	» 999
L. COLLI and S. MICHELETTI - On the Existence of Large Intensity Modulations in the Spectra of Protons from Some Nuclear Reactions.	» 1001
S. NARANAN, P. V. RAMANAMURTY, A. B. SAHAR and B. V. SREEKANTAN - Interaction of μ -mesons Underground	» 1005
C. CEOLIN - Parity Non-Conservation and the $\Delta I = \frac{1}{2}$ Rule in Hyperon Decays	» 1006
<i>Libri ricevuti e Recensioni</i>	» 1008

N. 5 - 1° Novembre 1957

D. AMATI and B. VITALE - Dispersion Relations for Heavy Meson-Nucleon Interaction in a Fixed Source Theory - I	pag. 1013
F. FERRARI and L. FONDA - The Binding Energy of Sigma Hyperons with Nucleons	» 1027
C. G. BOLLINI - On the Quantization of Tensor Fields with Zero Mass	» 1034
K. AIZU - General Theory of Particle Mixtures	» 1040
A. M. CONFORTO and J. A. SIMPSON - The 24 hour Intensity Variations of the Primary Cosmic Rays.	» 1052
Y. NAMBU - Parametric Representation of General Green's Functions	» 1064
A. ALBERIGI-QUARANTA, F. PIERACCINI and D. BROADBENT - On the Mean Life of μ -Mesons in Elements of Medium and High Atomic Number	» 1084
N. MARONGIU - Diffusione di radioelementi della famiglia del Th nelle emulsioni nucleari	» 1102
G. BERTOLINI, E. LAZZARINI and M. MANDELLI BETTONI - Beta-Gamma Directional Correlation in ^{170}Tm	» 1106
J. E. COUSINS, W. F. NASH and A. J. POINTON - The Effect of the Angular Variation of Intensity on Scattering Distributions of μ -Mesons Underground at a Depth of 40 m w.e.	» 1113
V. GLASER, H. LEHMANN and W. ZIMMERMANN - Field Operators and Retarded Functions.	» 1122
B. D'ESPAGNAT et J. PRENTKI - Renormalisation d'une théorie ne conservant pas la parité	» 1129
C. D'ANDLAU, R. ARMENTEROS, A. ASTIER, H. C. DESTAEBLER, B. P. GREGORY, L. LEPRINCE-RINGUET, F. MULLER, C. PEYROU and J. H. TINLOT - On the Q -Values of the Λ^0 and the θ^0 and on the Anomalous V^0 -Decays	» 1135
M. ANNIS, N. F. HARMON and R. D. SARD - A Multiplate Cloud Chamber Study of Unstable Particles	» 1155
C. BESSON, J. CRUSSARD, V. FOUCHÉ, J. HENNESSY, G. KAYAS, V. R. PARIKH and G. TRILLING - Production of Strange Particles by 4.3 GeV π^- in Emulsion	» 1168

J. J. SWART, R. E. MARSHAK and P. S. SIGNELL - Effect of the Spin-Orbit Potential on the Magnetic Moment of the Deuteron	pag. 1189
S. ALBERTONI and F. DUIMIO - Hilbert Spaces in Quantum Field Theories	» 1193

Note Tecniche:

W. JOHN and G. STOPPINI - A p, γ Coincidence Method for the Measurement of π^0 Photoproduction	» 1206
M. B. PALMA-VITTORELLI, M. U. PALMA and D. PALUMBO - The Behaviour of Phase-Sensitive Detectors	» 1211

Lettere alla Redazione:

W. E. FRAHN and R. H. LEMMER - Velocity-Dependent Nuclear Interaction. - II. Level Schemes	» 1221
R. FIESCHI - On the Thermodynamical Theory of Thermal Conduction of Dielectrics Under Electric Fields	» 1225
J. C. TAYLOR - Radiative Beta-Decay of the Pion	» 1226
J. W. GARDNER - Pinched Discharge and Thermonuclear Reactors	» 1228
H. SEGAWA and S. HORI - μ -Meson Decay in the Theory of Individual Mass Reversal and in the Two Component Theory of Neutrino	» 1230
G. HARRIS, J. OREAR and S. TAYLOR - Search for Mass-500 Particle as a K^+ Decay Product	» 1232
T. REGGE - Additional Remarks and Errata Corrigé to a Paper on the Theory of Spin 2 Particles	» 1233
G. MARX - The Principle of the Minimum Number of States at Weak Interactions	» 1235

<i>Libri ricevuti e Recensioni</i>	» 1238
--	--------

N. 6 - 1° Dicembre 1957

G. BÖBEL - Polarization Effects in Bremsstrahlung	pag. 1241
RIAZUDDIN - Dispersion Relations for Fermions	» 1252
M. SUFFCZYŃSKI - Neutron Polarization from Electron Disintegration	» 1268
D. AMATI and B. VITALE - Dispersion Relations for Heavy Meson-Nucleon Interaction in a Fixed Source Theory - II: Effective Range Relations	» 1273
D. AMATI and B. VITALE - Analysis of Processes Involving Baryons, Pions and Heavy Mesons	» 1282
L. MARQUEZ, N. L. COSTA and I. G. ALMEIDA - The Formation of ^{22}Na from Atmospheric Argon by Cosmic Rays	» 1292
A. N. MATVEEV - About Damping and Antidamping Betatron Oscillations, Taking into Account Non-Adiabatic Properties of the Radiation	» 1296
A. N. MATVEEV - Electron Motion in Synchrotrons in the Presence of Radiation	» 1305

D. AMATI and B. VITALE - K-Meson Photoproduction in a Many Field Interaction	pag. 1318
Y. TAKAHASHI and H. UMEZAWA - A General Treatment of Expanding Systems - I: Formulation	» 1324
R. E. MARSHAK and E. C. G. SUDARSHAN - Remarks on the Possible Existence of a Neutral Muon	» 1335
U. FASOLI and J. POHL-RÜLING - On the Correction of the Intensity of Cosmic Rays at Sea Level by means of Atmospheric Data.	» 1339
H. L. ANDERSON and C. M. G. LATTES - Search for the Electronic Decay of the Positive Pion	» 1356
Y. TAKAHASHI and H. UMEZAWA - A General Treatment of Expanding Systems - II: Application to Multiple Meson Processes	» 1382
A. ASCOLI-BALZANELLI and R. ASCOLI - The Čerenkov Effect Produced by Single Particles in Gases.	» 1392
P. CIOK, M. DANYSZ, J. GIERULA, A. JURAK, M. MIĘSOWICZ, J. PERNEGR, J. VRÁNA and W. WOLTER - On the Nucleon-Nucleon Interaction with Energy Higher than 10^{14} eV.	» 1409
S. FURUICHI, S. SAWADA and M. YONEZAWA - The Study of Polarizations of Secondary Muons in K-Meson Decay Processes	» 1416
R. WEILL, M. GAILLOUD et PH. ROSSELET - Production directe de paires d'électrons par les électrons de grande énergie. Modèle de formation de la trace initiale des paires d'électrons. Elimination des faux tridents	» 1430
S. W. McDOWELL - Energy Spectrum of Pions and Polarization of Muons and Electrons in the $K_{\mu 3}$ and $K_{e 3}$ Decay.	» 1445
K. S. BHATKI, R. K. GUPTA, S. JHA and B. K. MADAN - On the Decay of ^{113}Sn and ^{121}Te	» 1461
S. KAHANA and D. L. PURSEY - Coupling Constant Invariants in β -Decay	» 1469

Note Tecniche:

E. D. ALYEA jr., L. R. GALLAGHER, J. H. MULLINS and J. M. TEEM - A W F ₆ Bubble Chamber	» 1480
--	--------

Lettere alla Redazione:

A. DAS - On the Perihelion Shift in Conformally Flat Space-Time	» 1489
J. ODZIEMCZYK and T. TIETZ - Note on the Atom Form Factor	» 1491
M. SOGA and J. FUJITA - Widths of the Giant Resonance of Photonuclear Reaction.	» 1494
M. AVAN et L. AVAN - Section efficace de création directe de paires d'électrons par les mésons μ . Relation avec le moment magnétique	» 1500
R. L. BRAHMACHARY - A Class of Exact Solutions of the Combined Gravitational and Electro-Magnetic Field Equations of General Relativity	» 1502
H. TYRÉN, TH. A. J. MARIS and P. HILLMAN - Inner Shell Structure of Nuclei	» 1507
F. FERRARI and L. FONDA - Two Nucleon Potential from a Model of Pion-Nucleon Interaction	» 1510

G. DOMOKOS - On the Structure of the Nucleon Core	pag. 1513
G. ALEXANDER, R. H. W. JOHNSTON and C. O'CEALLAIGH - The Relative Frequencies of the Decay Modes of Positive K-Mesons and the Decay Spectra of Modes $K_{\mu 3}$, τ' and K_3	» 1515
H. FAY - Statistical Fluctuations Occurring in Electron-Photon Cascades of 1000 GeV Primary Energy	» 1516
<i>Libri ricevuti e Recensioni</i>	» 1520
<i>Indici del volume VI, Serie X, 1957</i>	» 1521

INDICE PER AUTORI

Le sigle L., N. T. e N. d. L., si riferiscono rispettivamente alle *Lettere alla Redazione*, alle *Note Tecniche*, e alle *Note di Laboratorio*.

ABROL M. L. - Nature of « p » in Bonnor's Unified Theory	pag. 230
AGODI A. and M. CINI - Charge Dependent Corrections to Dispersion Relations - II	» 686
AIZU K. - General Theory of Particle Mixtures	» 1040
ALBERIGI-QUARANTA A., F. PIERACCINI and D. BROADBENT - On the Mean Life of μ^- Mesons in Elements of Medium Atomic Number	» 1084
ALBERTONI S. and F. DUIMIO - Hilbert Spaces in Quantum Field Theories	» 1193
ALEXANDER G., R. H. W. JOHNSTON and C. O'CEALLAIGH - The Relative Frequencies of the Decay Modes of Positive K-Mesons and the Decay Spectra of Modes $K_{\mu 3}$, τ' and K_3	478, 1515
ALLES W., N. N. BISWAS, M. CECCARELLI and J. CRUSSARD - Nuclear Collisions of Negative K-Mesons	pag. 571
ALMEIDA I. G. (vedi MARQUEZ L.)	» 1292
ALYEA E. D. jr., L. R. GALLAGHER, J. H. MULLINS and J. M. TEEM - A WF_6 Bubble Chamber (N.T.)	» 1480
AMALDI U. jr. - Sugli impulsi prodotti dai raggi cosmici nei foto moltiplicatori (N.T.)	» 946
AMATI D. and B. VITALE - Low Energy K-Nucleon Scattering	» 261
AMATI D. and B. VITALE - Information on the Nature of Heavy Mesons from Photoproduction Experiments (L.)	» 395
AMATI D. and B. VITALE - Dispersion Relations for Heavy Meson-Nucleon Interaction in a Fixed Source Theory - I	» 1013
AMATI D. and B. VITALE - Dispersion Relations for Heavy Meson-Nucleon Interaction in a Fixed Source Theory - II. Effective Range Relations	» 1273
AMATI D. and B. VITALE - Analysis of Processes Involving Baryons, Pions and Heavy Mesons	» 1282
AMATI D. and B. VITALE - K-Meson Photoproduction in a many Field Interaction	» 1318
ANDERSON F. (vedi BHOWMIK B.)	» 440
ANDERSON H. L. and C. M. G. LATTES - Search for the Electronic Decay of the Positive Pion	» 1356

ANNIS M., N. F. HARMON and R. D. SARD - A Multiplate Cloud Chamber Study of Unstable Particles	pag. 1155
ARMENTEROS R. (vedi D'ANDLAU C. D.)	» 1135
ASCOLI-BALZANELLI A. and R. ASCOLI - The Čerenkov Effect Produced by Single Particles in Gases	» 1392
ASCOLI R. (vedi ASCOLI-BALZANELLI A.)	» 1392
ASTIER A. (vedi D'ANDLAU C. D.)	» 1135
AVAN L. (vedi AVAN M.) (L.)	» 1500
AVAN M. et L. AVAN - Section efficace de création directe de paires d'électrons par les méson μ : relation avec le moment magnétique (L.) . .	» 1500
BALDO-CEOLIN M., A. BONETTI, W. D. B. GREENING, S. LIMENTANI, M. MERLIN and G. VANDERHAEGHE - An Analysis of 419 τ -Meson Decays	» 84
BALDO-CEOLIN M., C. C. DILWORTH W. F. FRY, W. D. B. GREENING, H. HUZITA, S. LIMENTANI and A. E. SICHIROLLO - Nuclear Interactions of Neutral K-Mesons of Long Lifetime	» 130
BALDO-CEOLIN M., W. F. FRY, W. D. B. GREENING, H. HUZITA and S. LIMENTANI - The Decay of a Σ^+ Hyperon-Proton Fragment	» 144
BALLARIO C., R. BIZZARRI, B. BRUNELLI, A. DE MARCO, E. DI CAPUA, A. MICHELINI, G. C. MONETI, E. ZAVATTINI and A. ZICHICHI - Life Time Estimate of Λ^0 and θ^0 Particles (L.)	» 994
BARKOW A. G., B. CHAMANY and R. E. McDANIEL - Thin-Down and Breakup of a Large Z Cosmic Ray Primary	» 125
BERTOLINI G., E. LAZZARINI and M. MANDELLI BETTONI - Beta-Gamma Directional Correlation in ^{170}Tm	» 1106
BERTOTTI B. - A Remark on the Paper « Gravitational Motion and Hamilton's Principle » (L.)	» 755
BESSON C., J. CRUSSARD, V. FOUCHÉ, J. HENNESSY, G. KAYAS, V. R. PARIKH and G. TRILLING - Production of Strange Particles by 4.3 GeV π^- in Emulsion	» 1168
BHATKI K. S., R. K. GUPTA, S. IHA and B. K. MADAN - On the Decay of ^{113}Sn and $^{121}\text{Tellurium}$	» 1461
BHOWMIK B., D. EVANS, S. NILSSON, D. J. PROWSE, F. ANDERSON, D. KEEFE, A. KERNAN and J. LOSTY - The Interactions of Positive K-Mesons with Nuclei in Photographic Emulsion at Energies in the Region $0 \div 130$ MeV	» 440
BIORCI G. and D. PESCEtti - Formal Model of Magnetic Hysteresis (L.) . .	» 242
BISI A., E. GERMAGNOLI and L. ZAPPA - The Orbital Electron Capture Decay of ^{185}Os	» 299
BISWAS N. N. (vedi ALLES W.)	» 571
BIZZARRI R. (vedi BALLARIO C.) (L.)	» 994
BLANC D. - Influence du la longueur efficace et du diamètre du cylindre sur la courbe de palier des compteurs de Geiger-Müller à parois de verre et graphitage externe (L.)	» 974
BLOK J. and C. C. JONKER - Comparison between the Proton Energy Spectra of (n, p) and (d, p) Reactions (L.)	» 378
BÖBEL G. - Polarization Effects in Bremsstrahlung	» 1241
BOCCHIERI P. e E. MONTALDI - Sull'operatore hamiltoniano delle teorie beta . .	» 710
BOLLINI C. G. - On the Quantization of Tensor Fields with Zero Mass . .	» 1034
BONETTI A. (vedi BALDO-CEOLIN M.)	» 84
BOWEN T., D. M. HASKIN and M. SCHEIN - Examples of K-Meson Production in 3 GeV μ^- -Collisions	» 592

<p> BRAHMACHARY R. L. - A Class of Exact Solutions of the Combined Gravitational and Electro-Magnetic Field Equations of General Relativity (L.) pag. 1502 BRANDSEN B. H. and R. G. MOORHOUSE - Approximate Methods in <i>S</i>-Wave Pion Nucleon Scattering » 693 BRENNAN M. H. - The Response of a Liquid Scintillation Counter to Extensive Air Showers of Low Density (N.T.) » 216 BRINI P., L. PELI, O. RIMONDI and P. VERONESI - On the Azimuthal Distribution of <i>K</i> Photoelectrons by Polarized Photons » 98 BROADBENT D. (vedi ALBERIGI-QUARANTA A.) » 1084 BROWN R. R. - Neutron Yield Functions for the Nucleonic Component of Cosmic Radiation (N.T.) » 956 BRUNELLI B. (vedi BALLARIO C.) (L.) » 994 BUDINI P., N. DALLAPORTA and L. FONDA - Pion-Nucleon <i>S</i>-Waves and <i>K</i>-Mesons (L.) » 380 BULLOCK F. W., C. DODD, C. HENDERSON and G. KALMUS - Operating Characteristics of a Gas-Liquid Bubble Camber » 324 CAMBIERI A. e R. PAPPALARDO - Backscattering dei positroni del ^{22}Na (L.) » 743 CANDLIN D. J. - Time Reversal and the Decay of the μ-Meson (L.) » 390 CARRELLI A. and F. PORRECA - Information on 2.5 MeV Microtron (N.T.) » 729 CAVALCA L., M. NARDELLI e L. COGHI - La struttura del cloruro di (di)acetamide-cadmio » 278 CECCARELLI M. (vedi ALLES W.) » 571 CEOLIN C. - Parity Non-Conservation and the $\Delta I = \frac{1}{2}$ Rule in Hyperon Decays (L.) » 1006 CEOLIN C. and L. TAFFARA - Non-Adiabatic Treatment of the Scattering of <i>K</i>⁺-Mesons by Nucleons » 425 CHAMANY B. (vedi BARKOW A. G.) » 125 CINI M. (vedi AGODI A.) » 686 CIOK P., M. DANYSZ, J. GIERULA, A. JURAK, M. MIĘSOWICZ, J. PERNEGER, J. VRÁNA and W. WOLTER - On the Nucleon-Nucleon Interaction with Energy Higher than 10^{14} eV » 1409 COGHI L. (vedi CAVALCA L.) » 278 COLLI L. and S. MICHELETTI - On the Existence of Large Intensity Modulations in the Spectra of Protons from Some Nuclear Reactions (L.) » 1001 CONFORTO A. M. and J. A. SIMPSON - The 24 Hour Intensity Variations of the Primary Cosmic Rays » 1052 COSTA N. L. (vedi MARQUEZ L.) » 1292 COUSINS J. E., W. F. NASH and A. J. POINTON - The Effect of the Angular Variation of Intensity on Scattering Distribution of μ-Mesons Underground at a Depth of 40 m w.e. » 1113 CRUSSARD J. (vedi ALLES W.) » 571 CRUSSARD J. (vedi BESSON C.) » 1168 DALLAPORTA N. (vedi BUDINI P.) (L.) » 380 D'ANDLAU C. D., R. ARMENTEROS, A. ASTIER, H. C. DE STAEBLER, P. B. GREGORY, L. LEPRINCE-RINGUET, F. MULLER, C. PEYROU and J. TINLOT - On the <i>Q</i>-Value of the Λ^0 and 6^0 and on the Anomalous V^0-Decays » 1135 DANYSZ M. (vedi CIOK P.) » 1409 DAS A. - On the Perihelion Shift in Conformally Flat Space-Time (L.) » 1489 DE BENEDETTI S., U. FARINELLI, F. FERRERO, R. MALVANO, G. PELLI and C. TRIBUNO - A Short Lived Isomeric State of ^{208}Bi » 682 </p>	
---	--

DELL'ANTONIO G. and F. DUIMIO - On the Ruijgrok-Van Hove Model (L.)	pag.	751
DE MARCO A. (vedi BALLARIO C.) (L.)	»	994
D'ESPAGNAT B. et J. PRENTKI - Renormalisation d'une théorie ne conservant pas la parité	»	1129
DESTAEBLER H. C. (vedi D'ANDLAU C. D.)	»	1135
DE SWART J. J., R. E. MARSHAK and P. S. SIGNELL - Effect of the Spin-Orbit Potential on the Magnetic Moment of the Deuteron	»	1189
DEUTSCH S., P. KIPFER and E. PICCIOTTO - Pleochroic Haloes and the Artificial Coloration of Biotites by α -Particles	»	796
DEUTSCH S. et E. PICCIOTTO - Effacement des alpha dans les plaques Ilford C-2 (N.T.)	»	953
DI CAPUA E. (vedi BALLARIO C.) (L.)	»	994
DICKSON J. M. and D. C. SALTER - The Elastic and Inelastic Scattering of Polarized Protons by Carbon (L.)	»	235
DILWORTH C. C. (vedi BALDO-CEOLIN M.)	»	130
DODD C. (vedi BULLOCK F. W.)	»	324
DOMOKOS G. - On the Structure of the Nucleon Core (L.)	»	1513
DUIMIO F. (vedi DELL'ANTONIO G.) (L.)	»	751
DUIMIO F. (vedi ALBERTONI S.)	»	1193
ENGLER A. (vedi FOURNET-DAVIS D.)	»	311
ENZ C. P. - Fermi Interaction with Non-Conservation of « Lepton Charge » and of Parity (L.)	»	250
EVANS D. (vedi BHOWMIK B.)	»	440
FARINELLI U. (vedi DE BENEDETTI S.)	»	682
FASOLI U., I. MODENA, E. POHL and J. POHL-RÜLING - The Differential and Directional Positive Excess of Mesons at Sea Level	»	869
FASOLI U. and J. POHL-RÜLING - On the Correction of the Intensity of Cosmic Rays at Sea Level by Means of Atmospheric Data	»	1339
FAY H. - Statistical Fluctuations Occurring in Electron-Photon Cascades of 1000 GeV Primary Energy (L.)	»	1516
FELD B. T. - Isotopic Spin Selection Rules and Parity Non-Conservation in the Decay of the Strange Particles	»	650
FERRARI F. and L. FONDA - The Binding Energy of Sigma Hyperons with Nucleons	»	1027
FERRARI F. and L. FONDA - Two Nucleon Potential from a Model of Pion Nucleon Interaction (L.)	»	1510
FERRERO F., R. MALVANO and C. TRIBUNO - Evidence of a Second Maximum in the Cross-Section for Fast Photoneutron Emission in Cr, As, I, Ta (L.)	»	385
FERRERO F., A. O. HANSON, R. MALVANO and C. TRIBUNO - Photoprotons from ^{10}Mo	»	585
FERRERO F. (vedi DE BENEDETTI S.)	»	682
FERRETTI B. - On Gauge Invariance of Second Kind (L.)	»	997
FERRETTI B. - On the Conservation of Lepton Number (L.)	»	999
FIESCHI R. - Electronic States of Diatomic Molecules: the Lithium Molecule	»	197
FIESCHI R. - On the Thermodynamical Theory of Thermal Conduction of Dielectrics under Electric Fields (L.)	»	1225
FILOSOFO I. - A Čerenkov Counter as High Energy Photon Spectrometer	»	701
FIORINI E., R. GIACCONI, A. E. SICHIROLLO and C. SUCCI - Osservazioni sul funzionamento di una camera di Wilson con surcompressione (N.T.)	»	355

FIORINI E., R. GIACCONI e C. SUCCI - Una nuova camera di Wilson di grandi dimensioni (N.T.)	pag. 963
FONDA L. (vedi BUDINI P.) (L.)	» 380
FONDA L. (vedi FERRARI F.)	» 1027
FONDA L. (vedi FERRARI F.) (L.)	» 1510
FOUCHÉ V. (vedi BESSON C.)	» 1168
FOURNET-DAVIS D., A. ENGLER, C. J. GOEBEL, T. F. HOANG, M. F. KAPLON and J. KLARMANN - Observations on the $\pi^+ \rightarrow \mu^+ \rightarrow e^+$ Angular Correlation in Nuclear Emulsion	» 311
FOWLER P. H., P. S. FREIER, C. M. G. LATTES, E. P. NEY and S. J. ST. LORANT - Angular Correlation in the $\pi\mu$ -e Decay of Cosmic Ray Mesons	» 63
FRAHN W. E. and R. H. LEMMER - Non-Static Effects on Individual Nucleons in a Spheroidal Potential	» 664
FRAHN W. E. and R. H. LEMMER - Velocity-Dependent Nuclear Interaction. - II. Level Schemes (L.)	» 1221
FRANCHETTI S. - Simple Treatment of Central Force Collisions with Particular Reference to Phase Shift Calculation	» 601
FREIER P. S. (vedi FOWLER P. H.)	» 63
FRY W. F. (vedi BALDO-CEOLIN M.)	» 130
FRY W. F. (vedi BALDO-CEOLIN M.)	» 144
FUJITA J. (vedi SOGA M.) (L.)	» 1494
FURUICHI S., S. SAWADA and M. YONEZAWA - The Study of Polarization of Secondary Muons in K-Meson Decay Processes	» 1419
GAILLOUD M. (vedi WEILL R.)	» 413
GAILLOUD M. (vedi WEILL R.)	» 1430
GALLAGHER L. R. (vedi ALYEA E. D.) (N.T.)	» 1480
GALLONE S., G. M. PROSPERI and A. SCOTTI - Evaluation of Nuclear Fusion Probability in Mesic Molecules	» 168
GATTO R. and R. D. TRIPP - On the Question of Possible Charge Properties of Weak Interactions (L.)	» 367
GERMAGNOLI E. (vedi BISI A.)	» 299
GARDNER J. W. - Pinched Discharge and Thermonuclear Reactors (L.)	» 1228
GIACCONI R. (vedi FIORINI E.) (N.T.)	» 963
GIERULA J. (vedi CIOK P.)	» 1409
GIORI C. e C. SUCCI - Urto nucleare elastico di positroni da 2 MeV in argon	» 937
GLASER V., H. LEHMANN and W. ZIMMERMANN - Field Operators and Retarded Functions	» 1122
GOEBEL C. J. (vedi FOURNET-DAVIS D.)	» 311
GOLDIN L. L. and D. G. KOŠKAREV - Linear Theory of Synchrotron Oscillations. - II. Particle Losses During Acceleration and Tolerance Theory	» 286
GOTÔ T. (vedi POC KWON)	» 832
GOURDIN M. et A. MARTIN - Interaction non locale séparable et matrice de collision	» 757
GREENING W. D. B. (vedi BALDO-CEOLIN M.)	» 84
GREENING W. D. B. (vedi BALDO-CEOLIN M.)	» 130
GREENING W. D. B. (vedi BALDO-CEOLIN M.)	» 144
GREGORY P. B. (vedi D'ANDLAU C. D.)	» 1135
GROUSE P. J. and H. D. RATHGEBER - Counting Rate Curves for Geiger Counters and their Geometry (N.T.)	» 719
GUPTA R. K. (vedi BHATKI K. S.)	» 1461

HANSON A. O. (vedi FERRERO F.)	pag. 585
HARMON N. F. (vedi ANNIS M.)	» 1155
HARRIS G., J. OREAR and S. TAYLOR - Search for Mass-500 Particles as a K ⁺ Decay Product (L.)	» 1232
HASEGAWA S., J. NISHIMURA and Y. NISHIMURA - On the Angular Distri- bution of Secondary Particles of High Energy Jet Showers (L.)	» 979
HASKIN D. M. (vedi BOWEN T.)	» 592
HENDERSON C. (vedi BULLOCK F. W.)	» 324
HENDERSON C. and G. KALMUS - Correlation of Gas Bubble Chamber Re- sults with Glaser's Theory	» 925
HENNESSY J. (vedi BESSON C.)	» 1168
HILLIER R. R. and C. J. WADDINGTON - On Heavy Primary Cascades (L.) . .	» 403
HILLMAN P. (vedi TYRÉN H.) (L.)	» 1507
HOANG T. F. (vedi FOURNET-DAVIS D.)	» 311
HORI S. and A. WAKASA - Individual Mass Reversal and Parity Non-Con- servation	» 304
HORI S. (vedi SEGAWA H.)	» 1230
HUYBRECHTS M. - Théorie statistique du comptage de particules alpha émises par des désintégrations successives d'éléments radioactifs	» 811
HUZITA H. (vedi BALDO-CEOLIN M.)	» 130
HUZITA H. (vedi BALDO-CEOLIN M.)	» 144
HUZITA H. - On the Analysis of the Cosmic Ray Jets	» 841
ISO C. (vedi NAMIKI M.) (L.)	» 245
IVANENKO D. and H. SOKOLIK - Unified Description of Ordinary and Iso- topic Space (L.)	» 226
JÁNOSSY L. - On the Classical Fluctuation of a Beam of Light	» 111
JHA S. (vedi BHATKI K. S.)	» 1461
JOHN W. and G. STOPPINI - A p, γ Coincidence Method for the Measurement of π^0 Production (N.T.)	» 1206
JOHNS M. W. (vedi WILLIAMS I. R.)	» 18
JOHNSTON R. H. W. (vedi ALEXANDER G.)	478, 1515
JONA LASINIO and G. C. MONETI - The Liquid Helium Bubble Chamber as Analyzer of Proton Polarization (L.)	pag. 989
JONKER C. C. (vedi BLOK J.) (L.)	» 378
JURAK A. (vedi CIOK P.)	» 1409
KAHANA S. and D. L. PURSEY - Coupling Constants Invariants in β -Decay . .	» 1469
KALMUS G. (vedi BULLOCK F. W.)	» 324
KALMUS G. (vedi HENDERSON C.)	» 925
KANKI T. - Theory of Scattering in the Quantized Field and Low-Chew- Wick's Formalism	» 628
KAPLON M. F. (vedi FOURNET-DAVIS D.)	» 311
KAYAS G. (vedi BESSON C.)	» 1168
KEEFE D. (vedi BHOWMIK B.)	» 440
KERNAN A. (vedi BHOWMIK B.)	» 440
KIPPER P. (vedi DEUTSCH S.)	» 796
KLARMANN J. (vedi FOURNET-DAVIS D.)	» 311
KOŠKAREV D. G. (vedi GOLDIN L. L.)	» 286
KUMAR R. C. - Measurement of Ionization on Dipping Tracks in Nuclear Emulsion (L.)	» 739
KÜMMEL H. - Ein störungstheoretischer Zugang zu der Brücknerschen Theorie des Atomkerns und der Watsonschen Streunäherung	» 23

LANGER J. S. - Strange-Particle Effects in S-Wave Pion-Nucleon Scattering	pag.	674
LATTES C. M. G. (vedi FOWLER P. H.)	»	63
LATTES C. M. G. (vedi ANDERSON H. L.)	»	1356
LAZZARINI E. (vedi BERTOLINI G.)	»	1106
LEHMANN H., K. SYMANZIK and W. ZIMMERMANN - On the Formulation of Quantized Field Theories. - II	»	319
LEHMANN H. (vedi GLASER V.)	»	1122
LEMMER R. H. (vedi FRAHN W. E.)	»	664
LEMMER R. H. (vedi FRAHN W. E.) (L.)	»	1221
LEPRINCE-RINGUET L. (vedi D'ANDLAU C. D.)	»	1135
LEVI-SETTI R. and W. SLATER - Probable Nuclear Interaction of a Hydrogen Hypernucleus	»	51
LIMENTANI S. (vedi BALDO-CEOLIN M.)	»	84
LIMENTANI S. (vedi BALDO-CEOLIN M.)	»	130
LIMENTANI S. (vedi BALDO-CEOLIN M.)	»	144
LOSTY J. (vedi BHOWMIK B.)	»	440
LUNDBY A., A. P. PATRO and J. P. STROOT - Correlation between Circularly Polarized γ -Rays and β -Particles (L.)	»	745
MADAN B. K. (vedi BHATKI K. S.)	»	1461
MALVANO R. (vedi FERRERO F.) (L.)	»	385
MALVANO R. (vedi FERRERO F.)	»	585
MALVANO R. (vedi DE BENEDETTI S.)	»	682
MANDELLI-BETTONI M. (vedi BERTOLINI G.)	»	1106
MARIS T. A. J. (vedi TYRÉN H.) (L.)	»	1507
MARONGIU N. - Diffusione di radioelementi della famiglia del Ta nelle emulsioni nucleari	»	1102
MARQUEZ L., N. L. COSTA and I. G. ALMEIDA - The Formation of ^{22}Na from Atmospheric Argon by Cosmic Rays	»	1292
MARSHAK R. E. (vedi DE SWART J. J.)	»	1189
MARSHAK R. E. and E. C. G. SUDARSHAN - Remarks on the Possible existence of a Neutral Muon	»	1335
MARTIN A. (vedi GOURDIN M.)	»	757
MATSUO S. (vedi NARUMI H.) (L.)	»	398
MATTHEWS P. T. - The Parity of Elementary Particles	»	642
MATVEEV A. N. - About a Damping and an Antidamping of Betatron Oscillations, Taking Account of Non-Adiabatic Properties of the Radiation	»	1296
MATVEEV A. N. - Electron Motion in Synchrotrons in the Presence of Radiation	»	1305
MARX G. - The Principle of the Minimum Number of States at Weak Interaction (L.)	»	1235
MCDANIEL R. E. (vedi BARKOW A. G.)	»	125
MACDOWELL S. W. - Energy Spectrum of Pions and Polarization of Muons and Electrons in the $K_{\mu 3}$ and $K_{e 3}$ Decay	»	1445
MERLIN M. (vedi BALDO-CEOLIN M.)	»	84
MICHELETTI S. (vedi COLLI L.) (L.)	»	1001
MICHELINI A. (vedi BALLARIO C.) (L.)	»	994
MIESOWICZ M. (vedi CIOK P.)	»	1409
MILLER R. H. - Inelastic Scattering of 150 MeV Negative Pions by Carbon and Lead	»	882
MINGUZZI A. - Non-Linear Effects in the Vacuum Polarization (II)	»	501

MODENA I. (vedi FASOLI U.)	pag. 869
MONETI G. C. (vedi JONA LASINIO G.) (L.)	» 989
MONETI G. C. (vedi BALLARIO C.) (L.)	» 994
MONTALDI E. (vedi BOCCHIERI P.)	» 710
MOORHOUSE R. G. (vedi BRANSDEN B. H.)	» 693
MULLER F. (vedi D'ANDLAU C. D.)	» 1135
MULLINS J. H. (vedi ALYEA E. D.) (N.T.)	» 1480
NAKANISHI N. - A Systematization of Weak Interactions (L.)	» 383
NAMBU Y. - Parametric Representation of General Green's Functions	» 1064
NAMIKI M. and C. Iso - Multiple Production of Particles and Hydrodynamical Aspect of Quantum Theory of Fields (L.)	» 245
NARANAN S., P. V. RAMANAMURTY, A. B. SAHAR and B. V. SREEKANTAN - Interaction of μ -Mesons Underground (L.)	» 1005
NARDELLI M. (vedi CAVALCA L.)	» 278
NARUMI H. and S. MATSUO - A Note Concerning the Electric Hexadecapole Moment of the First Excited ^{111}Cd Nucleus (L.)	» 398
NASH W. F. (vedi COUSINS J. E.)	» 1113
NEY E. P. (vedi FOWLER P. H.)	» 63
NILSSON S. (vedi BHOWMIK B.)	» 440
NISHIMURA J. (vedi HASEGAWA S.) (L.)	» 979
NISHIMURA Y. (vedi HASEGAWA S.) (L.)	» 979
NOGAMI Y. - On the Charge Distribution of the Nucleon (L.)	» 985
ÔBA J. (vedi POC KNOW J.)	» 832
O'CEALLAIGH C. (vedi ALEXANDER G.)	478, 1515
ODZIEMECZYK J. and T. TIETZ - Note on the Atom Form Factor (L.)	pag. 1491
OGILVIE K. W. (vedi TIDMAN D. A.) (L.)	» 735
OKUBO S. - Anomalous Magnetic Moment of the Nucleon	» 542
OMNES R. - Production en paire des mésons positifs par un méson	» 780
OREAR J. (vedi HARRIS G.) (L.)	» 1232
PALMA-VITTORELLI M. B., M. U. PALMA and D. PALUMBO - The Behaviour of Phase-Sensitive Detectors (N.T.)	» 1211
PALMA M. U. (vedi PALMA-VITTORELLI M. B.) (N.T.)	» 1211
PALUMBO D. (vedi PALMA-VITTORELLI M. B.) (N.T.)	» 1211
PAPPALARDO R. - The Optical Absorption of $\text{Ni}^{2+} \cdot 6\text{H}_2\text{O}$ at Low Temperatures (L.)	» 392
PAPPALARDO R. (vedi CAMBIERI A.) (L.)	» 743
PARIKH V. R. (vedi BESSON C.)	» 1168
PASSATORE G. - On Polarization Effects in Coulomb Electron Scattering	» 850
PATRO A. P. (vedi LUNDBY A.) (L.)	» 745
PAULI W. - On the Conservation of the Lepton Charge	» 204
PEASLEE D. C. - Vectorial Charge Displacement	» 1
PELI L. (vedi BRINI P.)	» 98
PELLI G. (vedi DE BENEDETTI S.)	» 682
PERNEGR J. (vedi CIOK P.)	» 1409
PESCETTI D. (vedi BIORCI G.) (L.)	» 242
PEYROU C. (vedi D'ANDLAU C. D.)	» 1135
PICCIOTTO E. (vedi DEUTSCH S.)	» 796
PICCIOTTO E. (vedi DEUTSCH S.) (N.T.)	» 953
PIERACCINI F. (vedi ALBERIGI-QUARANTA A.)	» 1084
POC KWON Y., J. ÔBA and T. GOTÔ - Phenomenological Considerations on the Hyperfragments	» 832

POHL E. (vedi FASOLI U.)	pag. 869
POHL-RÜLING J. (vedi FASOLI U.)	» 869
POHL-RÜLING J. (vedi FASOLI U.)	» 1339
POINTON A. J. (vedi COUSINS J. E.)	» 1113
POLKINGHORNE J. C. — On the Strong Interactions	» 864
PORRECA F. (vedi CARRELLI A.) (N.T.)	» 729
PORRECA F. — On the Phase Grating in Suspensions Crossed by Ultrasounds	» 917
POWER E. A. and S. ZIENAU — On the Radiative Contributions to the Van der Waals Force	» 7
PRENTKI J. (vedi D'ESPAGNAT B.)	» 1129
PROSPERI G. M. (vedi GALLONE S.)	» 168
PROWSE D. J. (vedi BHOWMIK B.)	» 440
PURSEY D. L. — Invariance Properties of Fermi Interactions	» 266
PURSEY D. L. (vedi KAHANA S.)	» 1469
RAMANAMURTY P. V. (vedi NARANAN S.) (L.)	» 1005
RATHGEBER H. D. (vedi GROUSE P. J.) (N.T.)	» 719
REGGE T. — Additional Remarks and Errata Corrigé to a Paper on the Theory of Spin 2 Particles (L.)	» 1233
RIAZZUDDIN — Dispersion Relations for Fermions	» 1252
RIMONDI O. (vedi BRINI P.)	» 98
ROSSELET PH. (vedi WEILL R.)	» 413
ROSSELET PH. (vedi WEILL R.)	» 1430
SAHIAR A. B. (vedi NARANAN S.) (L.)	» 1005
SALTER D. C. (vedi DICKSON J. M.) (L.)	» 235
SARD R. D. (vedi ANNIS M.)	» 1155
SAWADA S. (vedi FURUICHI S.)	» 1416
SAWICKI J. and J. SZYMANSKI — Polarization Effects in Beta Decay Accom- panied by Internal Bremsstrahlung (L.)	» 982
SAXON D. S. and L. I. SCHIFF — Theory of High-Energy Potential Scattering	» 614
SCHEIN M. (vedi BOWEN T.)	» 592
SCHIFF L. I. (vedi SAXON D. S.)	» 614
SCOTTI A. (vedi GALLONE S.)	» 168
SEGAWA H. and S. HORI — μ -Meson Decay in the Theory of Individual Mass Reversal and in the Two Component Theory of Neutrino (L.)	» 1230
SEN P. — A Gauge Invariant Lagrangian for a Non-Local Electrodynamics (L.)	» 400
SICHIROLLO A. E. (vedi BALDO-CEOLIN M.)	» 130
SIGNELL P. S. (vedi DE SWART J. J.)	» 1189
SIMPSON J. A. (vedi CONFORTO A. M.)	» 1052
SKORKO M. and E. SKORKO — The Model of the Electron (L.)	» 364
SKORKO E. (vedi SKORKO M.) (L.)	» 364
SLATER W. (vedi LEVI-SETTI R.)	» 51
SOGA M. and J. FUJITA — Widths of the Giant Resonance of Photo-Nuclear Reactions (L.)	» 1494
SOKOLIK H. (vedi IVANENKO D.) (L.)	» 226
ST. LORANT S. J. (vedi FOWLER P. H.)	» 63
STOPPINI G. (vedi JOHN W.) (N.T.)	» 1206
SREEKANTAN B. V. (vedi NARANAN S.) (L.)	» 1005
STROOT J. P. (vedi LUNDBY A.) (L.)	» 745
SUCCI C. (vedi GIORI C.)	» 937
SUCCI C. (vedi FIORINI E.) (N.T.)	» 963

SUDARSHAN E. C. G. (vedi MARSHAK R. E.)	pag. 1335
SUFFCZYŃSKI M. - Neutron Polarization from Electron Disintegration	» 1268
SYMANZIK K. (vedi LEHMANN H.)	» 319
SZYMAŃSKI J. (vedi SAWICKI J.) (L.)	» 982
TAFFARA L. (vedi CEOLIN C.)	» 425
TAKAHASHI Y. - On the Generalized Ward Identity (L.)	» 371
TAKAHASHI Y. and H. UMEZAWA - A General Treatment of expanding Systems - I. Formulation	» 1324
TAKAHASHI Y. and H. UMEZAWA - A General Treatment of Expanding Systems - II. Application to Multiple Meson Processes	» 1382
TAYLOR J. C. - Radiative Beta Decay of the Pion (L.)	» 1226
TAYLOR S. (vedi HARRIS G.) (L.)	» 1232
TEEM J. M. (vedi ALYEA E. D.) (N. T.)	» 1480
TIDMAN D. A. and K. W. OGILVIE - Counting Rate of Cosmic Ray Counter Telescopes in Inclined Directions (L.)	» 735
TIETZ T. - On the Variation of the Diamagnetic Susceptibility of Water Due to Temperature (L.)	» 387
TIETZ T. (vedi ODZIEMECZYK J.) (L.)	» 1491
TINLOT J. (vedi D'ANDLAU C. D.)	» 1135
TIOMNO J. - On the Theory of Hyperons and K-Mesons	» 69
TIOMNO J. - Note on the Gamma Decay of Neutral Pions (L.)	» 255
TIOMNO J. - Non-Conservation of Parity and the Universal Fermi Interaction	» 912
TOMASINI A. - Multiple Emission in Nuclear Reactions (L.)	» 404
TOMASINI A. - Potential Inelastic Scattering by Complex Nuclei	» 927
TORALDO DI FRANCA G. - On a Macroscopic Measurement of the Spin of Electromagnetic Radiation	» 150
TRIBUNO C. (vedi FERRERO F.) (L.)	» 385
TRIBUNO C. (vedi FERRERO F.)	» 585
TRIBUNO C. (vedi DE BENEDETTI S.)	» 682
TRILLING G. (vedi BESSON C.)	» 1168
TRIPP R. D. (vedi GATTO R.) (L.)	» 367
TYRÉN H., T. A. J. MARIS and P. HILLMAN - Inner Shell Structure of Nuclei (L.)	» 1507
ÜBERALL H. - Polarization of Electrons from μ -e Decay (L.)	» 376
ÜBERALL H. - Angular Distribution of Neutrons from μ^- Absorption in Nuclei	» 533
UMEZAWA H. (vedi TAKAHASHI Y.)	» 1324
UMEZAWA H. (vedi TAKAHASHI Y.)	» 1382
VALK H. S. - Contribution to Elastic Scattering from Inelastic Processes: Application to High-Energy Electron Scattering from Hydrogen and Deuterium	» 173
VANDERHAEGHE G. (vedi BALDO-CEOLIN M.)	» 84
VAN WYK C. B. - Charge Conjugation and Angular Momentum	» 522
VARIČAK M. - Experiments in the Use of Thermistors for Low Pressure-Measurements (N.T.)	» 723
VERDE M. - The High Energy Limit of the Potential Scattering. - I. Non-Relativistic Kinematics	» 340
VERONESI P. (vedi BRINI P.)	» 98
VITALE B. (vedi AMATI D.)	» 261
VITALE B. (vedi AMATI D.) (L.)	» 395

VITALE B. (vedi AMATI D.)	pag. 1013
VITALE B. (vedi AMATI D.)	» 1273
VITALE B. (vedi AMATI D.)	» 1282
VITALE B. (vedi AMATI D.)	» 1318
VRÁNA J. (vedi CIOK P.)	» 1409
WADDINGTON C. J. (vedi HILLIER R.) (L.)	» 403
WADDINGTON C. J. - A Correlation to Previously Quoted Cosmic Ray Flux Values (L.)	» 748
WAKASA A. (vedi HORI S.)	» 304
WATANABE S. - « Handed » Particle of Spin $\frac{1}{2}$ with Finite Mass	» 187
WEILL R., M. GAILLOUD et PH. ROSSELET - Mesure de l'énergie des paires d'électrons de plus de 1 GeV dans les émulsions nucléaires	» 413
WEILL R., M. GAILLOUD et PH. ROSSELET - Production directe de paires d'électrons par les électrons de grande énergie. Modèle de formation de la trace initiale des paires d'électrons. Elimination des faux tridents	» 1430
WEINER R. - Nuclear Isomeric Shift on Spectral Lines	» 257
WILKINSON D. H. - The π - μ -e Asymmetry	» 516
WILLIAMS I. R. and M. W. JOHNS - The Decay of ^{185}W	» 18
WOLTER W. (vedi CIOK P.)	» 1409
YAGODA H. - Anomalous Heavy Primary Cascades Recorded on Viking 10 Rocket Flight	» 559
YAMAGUCHI S. - An Experiment for Polarization of Free Electrons (L.)	» 977
YONEZAWA M. (vedi FURUICHI S.)	» 1416
ZAGLIO E. - High Sensitivity Transistor Pulse Trigger Circuit	» 512
ZAPPA L. (vedi BISI A.)	» 299
ZAVATTINI E. (vedi BALLARIO C.) (L.)	» 994
ZICHICHI A. (vedi BALLARIO C.) (L.)	» 994
ZIENAU S. (vedi POWER E. A.)	» 7
ZIMMERMANN W. (vedi LEHMANN H.)	» 319
ZIMMERMANN W. (vedi GLASER V.)	» 1122

INDICE ANALITICO PER MATERIE

APPARATI E STRUMENTI.

Camera di Wilson con surcompressione (osservazioni sul funzionamento) (N.T.), E. Fiorini, R. Giacconi, A. Sichirollo e C. Succi	pag. 355
Camera di Wilson di grandi dimensioni (una nuova) (N.T.), E. Fiorini, R. Giacconi e C. Succi	» 963
Čerenkov Counter as High Energy Photon Spectrometer, I. Filosofo	» 701
Compteurs de Geiger-Müller à parois de verre et graphitage externe (influence de la longueur efficace et du diamètre du cylindre sur la courbe de palier) (L.), D. Blanc	» 974
Counting Rate of Cosmic Ray Counter Telescopes in Inclined Directions (L.), D. A. Tidman and K. W. Ogilvie	» 735
Damping and Antidamping of Betatron Oscillations, Taking Account of Non-adiabatic Properties of the Radiation, A. N. Matveev	» 1296

Gas Bubble Chamber (Correlation of Results with Glaser's Theory), <i>C. Henderson and G. Kalmus</i>	pag. 925
Gas-Liquid Bubble Chamber (Operating Characteristics of), <i>F. W. Bullock, C. Dodd, C. Henderson and G. Kalmus</i>	» 324
Geiger Counters and Their Geometry (Counting Rate Curves for) (N.T.), <i>P. J. Grouse and H. D. Rathgeber</i>	» 719
Impulsi prodotti dai raggi cosmici nei fotomoltiplicatori (N.T.), <i>U. Amaldi jr.</i>	» 946
Liquid Helium Bubble Chamber as Analyzer of Proton Polarization (L.), <i>G. Jona Lasinio and G. C. Moneti</i>	» 989
Liquid Scintillation Counter Response to Extensive Air Showers of Low Density (N.T.), <i>M. H. Brennan</i>	» 216
Microtron of 2.5 MeV (Information on), <i>A. Carrelli and F. Porreca</i> . .	» 729
Multiplate Cloud Chamber Study of Unstable Particles, <i>M. Annis,</i> <i>N. F. Harmon and R. D. Sard</i>	» 1155
Neutron Yield Functions for the Nucleonic Component of Cosmic Ra- diation (N.T.), <i>R. R. Brown</i>	» 956
Paires d'électrons de plus de 1 GeV dans les émulsions nucléaires (mesure de l'énergie dans), <i>R. Weill, M. Gailloud et P. Rosselet</i>	» 413
Photoproduction (a p, γ Coincidence Method for the Measurement of) (N.T.), <i>W. John and G. Stoppini</i>	» 1206
Phase-Sensitive Detectors (the Behaviour of) (N.T.), <i>M. B. Palma-</i> <i>Vittorelli, M. U. Palma and D. Palumbo</i>	» 1211
Polarization of Free Electrons (an Experiment for), <i>S. Yamaguchi</i> . .	» 977
Synchrotrons: an Electron Motion in the Presence of the Radiation, <i>A. N. Matveev</i>	» 1305
Synchrotron Oscillations (Linear Theory of) - II. Particle Losses During Acceleration and Tolerance Theory, <i>L. L. Goldin and D. G. Koskarev</i> »	286
Thermistors for Low Pressure-Measurements (Experiments in the Use of) (N.T.), <i>M. Varicak</i>	» 723
Transistor Pulse Trigger Circuit of High Sensitivity, <i>E. Zaglio</i> . . .	» 512
WF ₆ Bubble Chamber (N.T.), <i>E. D. Alyea jr., L. R. Gallagher, J. H.</i> <i>Mullins and J. M. Teem</i>	» 1480

COSMICA (RADIAZIONE).

Angular Distribution of Secondary Particles of High Energy Jet Showers (L.), <i>S. Hasegawa, J. Nishimura and Y. Nishimura</i>	» 979
Anomalous Heavy Primary Cascades Recorded on Viking 10 Rocket Flight, <i>H. Yagoda</i>	» 559
Correlation to Previously Quoted Cosmic Ray Flux Values (L.), <i>C. J.</i> <i>Waddington</i>	» 748
Cosmic Ray Jets (Analysis of), <i>H. Huzita</i>	» 841
Differential and Directional Positive Excess of Mesons at Sea Level, <i>U. Fasoli, I. Modena, E. Pohl and J. Pohl-Rüling</i>	» 869
Electron-Photon Cascades of 1000 GeV Primary Energy (Statistical Fluctuations Occurring in) (L.), <i>H. Fay</i>	» 1516
Formation of ²² Na from Atmospheric Argon by Cosmic Rays, <i>L. Marquez,</i> <i>N. L. Costa and I. G. Almeida</i>	» 1292

Heavy Primary Cascades (L.), <i>R. R. Hillier</i> and <i>C. J. Waddington</i> . . .	pag. 403
Intensity of Cosmic Rays at Sea Level by Means of Atmospheric Data (on the Correction of the), <i>U. Fasoli</i> and <i>J. Pohl-Rüling</i>	» 1339
Thin Down and Breakup of a Large Z Cosmic Ray Primary, <i>A. G. Barkow</i> , <i>B. Chamany</i> and <i>R. E. McDaniel</i>	» 125
24 h Intensity Variations of the Primary Cosmic Rays, <i>A. M. Conforto</i> and <i>J. A. Simpson</i>	» 1052

ELETTRODINAMICA E TEORIE DEI CAMPI.

a) QUESTIONI GENERALI.

Charge Conjugation and Angular Momentum, <i>C. B. Van Wyk</i>	» 522
Class of Exact Solutions of the Combined Gravitational and Electro- Magnetic Field Equations of General Relativity (L.), <i>R. L. Brahmachary</i>	» 1502
Dispersion Relations. - II. Charge Dependent Corrections, <i>A. Agodi</i> and <i>M. Cini</i>	» 686
Dispersion Relations for Fermions, <i>Riazzuddin</i>	» 1252
Dispersion Relations for Heavy Mesons Nucleon Interaction in a Fixed Source Theory - I, <i>D. Amati</i> and <i>B. Vitale</i>	» 1013
Dispersion Relations for Heavy Meson-Nucleon Interaction in a Fixed Source Theory. - II. Effective Range Relations, <i>D. Amati</i> and <i>B. Vitale</i>	» 1273
Expanding Systems (a General Treatment of). - I. Formulation, <i>Y. Taka-</i> <i>hashi</i> and <i>H. Umezawa</i>	» 1324
Expanding Systems (a General Treatment of). - II. Application to Multiple Meson Processes, <i>Y. Takahashi</i> and <i>H. Umezawa</i>	» 1382
Field Operators and Retarded Functions, <i>V. Glaser</i> , <i>H. Lehmann</i> and <i>W. Zimmermann</i>	» 1122
Gauge Invariance of Second Kind (L.), <i>B. Ferretti</i>	» 997
General Green's Functions (Parametric Representation of), <i>Y. Nambu</i>	» 1064
Generalized Ward Identity (L.), <i>Y. Takahashi</i>	» 371
Hilbert Spaces in Quantum Field Theories, <i>S. Albertoni</i> and <i>F. Duimio</i>	» 1193
Interaction non locale séparable et matrice de collision, <i>M. Gourdin</i> et <i>A. Martin</i>	» 757
Isotopic Spin Selection Rules and Parity Non-Conservation in the Decay of the Strange Particles, <i>B. T. Feld</i>	» 650
Multiple Production of Particles and Hydrodynamical Aspect of Quantum Theory of Field (L.), <i>M. Namiki</i> and <i>C. Iso</i>	» 245
Non-Local Electrodynamics (a Gauge Invariant Lagrangian for) (L.), <i>P. Sen</i>	» 400
Operatore hamiltoniano delle teorie beta, <i>P. Bocchieri</i> e <i>E. Montaldi</i>	» 710
Parity of Elementary Particles, <i>P. T. Matthews</i>	» 642
Particle Mixtures (General Theory of), <i>K. Aizu</i>	» 1040
Quantized Field Theories (on the Formulation of). - II, <i>H. Lehmann</i> , <i>K. Symanzik</i> and <i>W. Zimmermann</i>	» 319
Renormalisation d'une théorie ne conservant pas la parité, <i>B. D'Espagnat</i> et <i>J. Prentki</i>	» 1129
Spin-Orbit Potential (Effect on the Magnetic Moment of the Deuteron), <i>J. J. De Swart</i> , <i>R. E. Marshak</i> and <i>P. S. Signell</i>	» 1189

Strong Interactions, <i>J. C. Polkinghorne</i>	pag.	864
Two Nucleon Potential from a Model of Pion-Nucleon Interaction (L.), <i>F. Ferrari</i> and <i>L. Fonda</i>	»	1510
Unified Description of Ordinary and Isotopic Space (L.), <i>D. Ivanenko</i> and <i>H. Sokolik</i>	»	226
Vacuum Polarization (Non Linear Effects in the) - II. <i>A. Minguzzi</i> . .	»	501
Van der Waals Force (Radiative Contributions to), <i>E. A. Power</i> and <i>S. Zienau</i>	»	7
Vectorial Charge Displacement, <i>D. C. Peaslee</i>	»	1

b) CAMPI ELETTROMAGNETICI.

Čerenkov Effect Produced by Single Particles in Gases, <i>A. Ascoli-Bal-</i> <i>zanelli</i> and <i>R. Ascoli</i>	»	1392
Coupling Constants Invariants in β -Decay, <i>S. Kahana</i> and <i>D. L. Pursey</i> . .	»	1469
Electron (the Model of the) (L.), <i>M. Skorko</i> and <i>E. Skorko</i>	»	364
Fermi Interactions (Invariance Properties of), <i>D. L. Pursey</i>	»	266
Fermi Interaction with Non-Conservation of «Lepton Charge» and of Parity (L.), <i>C. P. Enz</i>	»	250
«Handed» Particle of Spin $\frac{1}{2}$ with Finite Mass, <i>S. Watanabe</i>	»	187
Lepton Charge (Conservation of), <i>W. Pauli</i>	»	204
Lepton Number (Conservation of) (L.), <i>B. Ferretti</i>	»	999
Parity Non Conservation and the Universal Fermi Interaction, <i>J. Tiomno</i> .	»	912
Parity Non Conservation (Individual Mass Reversal and), <i>S. Hori</i> and <i>A. Wakasa</i>	»	304
Quantization of Tensor Fields with Zero Mass, <i>C. G. Bollini</i>	»	1034
Weak Interactions (a Systematization of) (L.), <i>N. Nakanishi</i>	»	383
Weak Interactions (on the Question of Possible Charge Properties of) (L.), <i>R. Gatto</i> and <i>R. D. Tripp</i>	»	367
Weak Interactions (the Principle of the Minimum Number of States) (L.), <i>G. Marr</i>	»	1235

c) CAMPI MESONICI E STRUTTURA DEL NUCLEONE.

Anomalous Magnetic Moment of the Nucleon, <i>S. Okubo</i>	»	542
Brucknersche Theorie des Atomkerns und der Watsonschen Streu- näherung (ein störungstheoretischer Zugang zu der), <i>H. Kummel</i> . .	»	23
K-Meson Photoproduction in a many Field Interaction, <i>D. Amati</i> and <i>B. Vitale</i>	»	1318
Nucleon Core (on the Structure of the) (L.), <i>G. Domokos</i>	»	1513
Nucleon (on the Charge Distribution of the) (L.), <i>Y. Nogami</i>	»	985
Ruijgrok-Van Hove Model (L.), <i>G. Dell'Antonio</i> and <i>F. Duimio</i> . . .	»	751
Scattering Theory in the Quantized Field and Low-Chew-Wick's For- malism, <i>T. Kanki</i>	»	628
Spin 2 Particles (Additional Remarks and Errata Corrige to a Paper on the Theory of) (L.), <i>T. Regge</i>	»	1233

MESONI ED ELETTRONI.

Asymmetry of π - μ -e, <i>D. H. Wilkinson</i>	pag. 516
Electronic Decay of the Positive Pion, <i>H. L. Anderson</i> and <i>C. M. G. Lattes</i> »	1356
Gamma Decay of Neutral Pions (L.), <i>J. Tiomno</i>	» 255
Interaction of μ -Mesons Underground (L.), <i>S. Naranan, P. V. Ramamurthy, A. B. Sahiar</i> and <i>B. V. Sreekantan</i>	» 1005
μ -Meson Decay in the Theory of Individual Mass Reversal and in the Two Component Theory of Neutrino (L.), <i>H. Segawa</i> and <i>S. Hori</i>	» 1230
μ -Mesons Mean Life in Elements of Medium Atomic Number, <i>A. Alberigi Quaranta, F. Pieraccini</i> and <i>D. Broadbent</i>	» 1084
Neutral Muon (Remarks on the Possible Existence of a), <i>R. E. Marshak</i> and <i>E. C. G. Sudarshan</i>	» 1335
π - μ -e Decay of Cosmic Ray Mesons (Angular Correlation in the), <i>P. H. Fowler, P. S. Freier, C. M. G. Lattes, E. P. Ney</i> and <i>S. J. St. Lorant</i> »	63
$\pi^+ \rightarrow \mu^+ \rightarrow e^+$ Angular Correlation in Nuclear Emulsions, <i>D. Fournet-Davis, A. Engler, C. J. Goebel, T. F. Hoang, M. F. Kaplon</i> and <i>J. Klarmann</i> »	311
Polarization of electrons from μ -e Decay (L.), <i>H. Überall</i>	» 376
Production en paire des mésons positifs par un méson, <i>R. Omnes</i>	» 780
Radiative Beta Decay of the Pion (L.), <i>J. C. Taylor</i>	» 1226
Section efficace de création directe de paires d'électrons par les mésons μ relation avec le moment magnétique (L.), <i>M. Avan</i> et <i>L. Avan</i>	» 1500
Time Reversal and the Decay of the μ -Meson, <i>D. J. Candlin</i>	» 390

MESONI PESANTI, IPERONI E PARTICELLE STRANE.

Baryons, Pions and Heavy Mesons (Analysis of Processes Involving), <i>D. Amati</i> and <i>B. Vitale</i>	» 1282
Decay of a Σ^+ Hyperon-Proton Fragment, <i>M. Baldo-Ceolin, W. F. Fry, W. D. B. Greening, H. Huzita</i> and <i>S. Limentani</i>	» 144
Heavy Mesons from Photoproduction Experiments (L.), <i>D. Amati</i> and <i>B. Vitale</i>	» 395
Hyperfragments (Phenomenological Consideration on the), <i>Y. Poc Kwon, J. Ôba</i> and <i>T. Gotô</i>	» 832
Hydrogen Hypernucleus (Probable Nuclear Interaction of a), <i>R. Levi Setti</i> and <i>W. Slater</i>	» 51
Hyperons and K-Mesons (on the Theory of), <i>J. Tiomno</i>	» 69
K-Mesons Nuclear Collisions, <i>W. Alles, N. N. Biswas, M. Ceccarelli</i> and <i>J. Crussard</i>	» 571
K-Meson Decay Processes (Polarization of Secondary Muons in), <i>S. Furuchi, S. Sawada</i> and <i>M. Yonezawa</i>	» 1416
K^0 -Mesons of Long Lifetime Nuclear Interactions, <i>M. Baldo-Ceolin, C. C. Dilworth, W. F. Fry, W. D. B. Greening, H. Huzita, S. Limentani</i> and <i>A. E. Sicchirollo</i>	» 130
K-Meson Production in 3 GeV π^- -Collisions, <i>T. Bowen, D. M. Haskin</i> and <i>M. Schein</i>	» 592
K^+ -Mesons Interactions with Nuclei in Photographic Emulsions at Energies in the Region $0 \div 130$ MeV, <i>B. Bhomwik, D. Evans, S. Nilsson, D. J. Prowse, F. Anderson, D. Keefe, A. Kernan</i> and <i>J. Losty</i>	» 440

$K_{\mu 3}$ and $K_{e 3}$ Decay Energy Spectrum of Pions and Polarization of Muons and Electrons, <i>S. W. McDowell</i>	pag. 1445
Λ^0 and θ^0 Particles, Life Time Estimate, <i>C. Ballario, R. Bizzarri, B. Brunnelli, A. De Marco, E. Di Capua, A. Michelini, G. C. Moneti, E. Zavattini</i> and <i>A. Zichichi</i>	» 994
Parity Non Conservation and the $\Delta I = \frac{1}{2}$ Rule in Hyperon Decays, <i>C. Ceolin</i>	» 1006
Pion-Nucleon S -Waves and K -Mesons, <i>P. Budini, N. Dallaporta</i> and <i>L. Fonda</i>	» 380
Q -Values of the Λ^0 and θ^0 and Anomalous V^0 -Decays, <i>C. D. D'Andlau, R. Armenteros, A. Astier, H. C. DeStaebler, P. B. Gregory, L. Leprince-Ringuet, F. Muller, C. Peyrou</i> and <i>J. Tinlot</i>	» 1135
Relative Frequencies of the Decay Modes of Positive K -Mesons and the Decay Spectra of Modes $K_{\mu 3}$, τ' and K , <i>G. Alexander, R. H. W. Johnston</i> and <i>C. O'Ceallaigh</i>	478, 1515
Search for Mass-500 Particles as a K^+ Decay Product, <i>G. Harris, J. Orear</i> and <i>S. Taylor</i>	pag. 1232
Sigma Hyperons Binding Energy with Nucleons, <i>F. Ferrari</i> and <i>L. Fonda</i>	» 1027
Strange Particles Production by 4.3 GeV π^- in Emulsion, <i>C. Besson, J. Crussard, V. Fouché, J. Hennessy, G. Kayas, V. R. Parikh</i> and <i>G. Trilling</i>	» 1168
Mesons; an Analysis of 419 Decays, <i>M. Baldo-Ceolin, A. Bonetti, W. D. B. Greening, S. Limentani, M. Merlin</i> and <i>G. Vanderhaeghe</i>	» 84

MOLECOLE.

Electronic States of Diatomic Molecules. The Lithium Molecule, <i>R. Fieschi</i>	» 197
--	-------

NUCLEO (FISICA NUCLEARE).

a) FORZA E MODELLI NUCLEARI.

Non Static Effects on Individual Nucleons in a Spheroidal Potential, <i>W. E. Frahn</i> and <i>R. H. Lemmer</i>	» 664
Nucleon-Nucleon Interaction with Energy Higher than 10^{11} eV, <i>P. Ciok, M. Danyasz, J. Gierula, A. Jurak, M. Miesowicz, J. Pernegr, J. Vrána</i> and <i>W. Wolter</i>	» 1409
Velocity Dependent Nuclear Interaction. - II. Level Schemes, <i>W. E. Frahn</i> and <i>R. H. Lemmer</i>	» 1221

b) REAZIONI NUCLEARI.

Angular Distribution of Neutrons from μ^- Absorption in Nuclei, <i>H. Überall</i>	» 533
Effacement des alpha dans les plaques Ilford C 2, <i>S. Deutsch</i> et <i>E. Picciotto</i>	» 953
Fusion Probability of Nuclei in Mesc Molecules, <i>S. Gallone, G. M. Prosperi</i> and <i>A. Scotti</i>	» 168
Multiple Emission in Nuclear Reactions, <i>A. Tomasini</i>	» 404
Neutron Polarization from Electron Disintegration, <i>M. Suffczyński</i>	» 1268

Photoneutron Emission in Cr, As, I, Ta, a Second Maximum in the Cross-Section, <i>F. Ferrero, R. Malvano and C. Tribuno</i>	pag. 385
Photoprotons from ^{100}Mo , <i>F. Ferrero, A. O. Hanson, R. Malvano and C. Tribuno</i>	» 585
Proton Energy Spectra of (n, p) and (d, p) Reactions, <i>J. Blok and C. C. Jonker</i>	» 378
Spectra of Protons from Some Nuclear Reactions, Existence of Large Intensity Modulations, <i>L. Colli and S. Micheletti</i>	» 1001
Urto nucleare elastico di positroni da 2 MeV in Argon, <i>C. Giori e O. Succi</i>	» 937
Widths of the Giant Resonance of Photo-Nuclear Reaction, <i>M. Soga and J. Fujita</i>	» 1494

c) STRUTTURA DEI NUCLEI.

Electric Hexadecapole Moment of the First Excited ^{111}Cd Nucleus, <i>H. Narumi and S. Matsuo</i>	» 398
Inner Shell Structure of Nuclei (L.), <i>H. Tyren, T. A. J. Maris and P. Hillman</i>	» 1507

ONDE ELETTROMAGNETICHE.

On the Classical Fluctuation of a Beam of Light, <i>L. Jánossy</i>	» 111
--	-------

QUANTISTICA (MECCANICA).

Central Force Collision, Simple Treatment with Particular Reference to Phase Shift Calculation, <i>S. Franchetti</i>	» 601
Macroscopic Measurement of the Spin of Electromagnetic Radiation, <i>G. Toraldo di Francia</i>	» 150

RADIOATTIVITÀ.

Backscattering dei positroni del ^{22}Na , <i>A. Cambieri e R. Pappalardo</i>	» 743
Beta-Gamma Directional Correlation in ^{170}Tm , <i>G. Bertolini, E. Lazzarini and M. Mandelli Bettoni</i>	» 1106
^{208}Bi , Short Lived Isomeric State, <i>S. De Benedetti, U. Farinelli, F. Ferrero, R. Malvano, G. Pelli and C. Tribuno</i>	» 682
Comptage de particules alpha émises par des désintégrations successives d'éléments radioactifs, théorie statistique, <i>M. Huybrechts</i>	» 811
Correlation between Circularly Polarized γ -Rays and β -Particles (L.), <i>A. Lundby, A. P. Patro and J. P. Stroot</i>	» 745
Decay of ^{113}Sn and ^{121}Te , <i>K. S. Bhatki, R. K. Gupta, S. Jha and B. K. Madan</i>	» 1461
Decay of ^{165}W , <i>I. R. Williams and M. W. Johns</i>	» 18
Diffusione di radioelementi della famiglia del Th nelle emulsioni nucleari, <i>N. Marongiu</i>	» 1102

Orbital Electron Capture Decay of ^{185}Os , <i>A. Bisi, E. Germagnoli and L. Zappa</i>	pag. 299
Polarization Effects in Beta Decay Accompanied by Internal Bremsstrahlung, <i>J. Sawicki and J. Szymanski</i>	» 982

REATTORI.

Pinched Discharge and Thermonuclear Reactors, <i>J. W. Gardner</i>	» 1228
--	--------

RELATIVITÀ.

Perihelion Shift in Conformally Flat Space-Time, <i>A. Das</i>	» 1489
Remark on the Paper « Gravitational Motion and Hamilton's Principle », <i>B. Bertotti</i>	» 755

SCATTERING E IONIZZAZIONE.

Azimuthal Distribution of K Photoelectrons by Polarized Photons, <i>P. Brini, L. Peli, O. Rimondi and P. Veronesi</i>	» 98
Coulomb Electron Scattering, Polarization Effects, <i>G. Passatore</i>	» 850
Elastic and Inelastic Scattering of Polarized Protons by Carbon, <i>J. M. Dickson and D. C. Salter</i>	» 235
Elastic Scattering, Contribution from Inelastic Processes: Application to High-Energy Electron Scattering from Hydrogen and Deuterium, <i>H. S. Valk</i>	» 173
High-Energy Potential Scattering, <i>D. S. Saxon and L. I. Schiff</i>	» 614
Inelastic Scattering of 150 MeV Negative Pions by Carbon and Lead, <i>R. H. Miller</i>	» 882
Ionization on Dipping Tracks in Nuclear Emulsion, <i>R. C. Kumar</i>	» 739
Low Energy K-Nucleon Scattering, <i>D. Amati and B. Vitale</i>	» 261
Polarization Effects in Bremsstrahlung, <i>G. Böbel</i>	1241
Potential Inelastic Scattering by Complex Nuclei, <i>A. Tomasini</i>	» 927
Potential Scattering High Energy Limit. - I. Non Relativistic Kinematics, <i>M. Verde</i>	» 340
Production directe de paires d'électrons par les électrons de grande énergie. Modèle de formation de la trace initiale des paires d'électrons. Elimination des faux tridents, <i>R. Weill, M. Gailloud and Ph. Rosselet</i>	» 1430
Scattering Distribution of μ -Mesons Underground at a Depth of 40 m w.e., Effect of the Angular Variation of Intensity, <i>J. E. Cousins, W. F. Nash and A. J. Pointon</i>	» 1113
Scattering of K^+ -Mesons by Nucleons, Non-Adiabatic Treatment, <i>C. Ceolin and L. Taffara</i>	» 425
S-Wave Pion Nucleon Scattering, Approximate Methods, <i>R. H. Bransden and R. G. Moorhouse</i>	» 693
Strange Particle Effects in S-Wave Pion-Nucleon Scattering, <i>J. S. Langer</i>	» 674

STRUTTURA DELLA MATERIA.

Atom Form Factor, <i>J. Odziemezyk</i> and <i>T. Tietz</i>	pag. 1491
Cloruro di acetamide-cadmio, struttura, <i>L. Cavalca</i> , <i>M. Nardelli</i> e <i>L. Coghi</i> »	278
Diamagnetic Susceptibility of Water due to Temperature (on the Variation of) <i>T. Tietz</i>	» 387
Magnetic Hysteresis, (Formal Model of) <i>G. Biorci</i> and <i>D. Pescetti</i> . . .	» 242
Phase Grating in Suspensions Crossed by Ultrasounds, <i>F. Porreca</i> . .	» 917
Pleochroic Haloes and the Artificial Coloration of Biotites by α -Particles, <i>S. Deutsch</i> , <i>P. Kipfer</i> and <i>E. Picciotto</i>	» 796
Optical Absorption of $\text{Ni}^{2+} \cdot 6\text{H}_2\text{O}$ at Low Temperatures, <i>R. Pappalardo</i> »	392
Thermodynamical Theory of Thermal Conduction of Dielectrics under Electric Fields, <i>R. Fieschi</i>	» 1225

INDICE DELLE RECENSIONI

<i>Reports on Progress in Physics</i> - Volume XIX (1956); a cura di A. C. STICKLAND	pag. 258
C. J. GORTER editor - <i>Progress in Low Temperature Physics</i> , vol. II . . .	» 259
C. L. SIEGEL - <i>Vorlesungen über Himmelsmechanik</i>	» 408
<i>Journal of the Institution of Telecommunication Engineers</i> . Special Five Year Plan Number, Giugno-Settembre 1956	» 410
<i>Proceedings of the International Conference on the Peaceful Uses of Atomic Energy</i> . Geneva, 8-20 August 1955, Vol. 7; Nuclear Chemistry and Effects of Irradiation	» 411
<i>Simposium du Cern sur la physique des mesons π</i> , vol. II	» 1008
<i>Handbuch der Physik</i> , herausgegeben von S. FLÜGGE, Band XXXV. Atome I »	1008
<i>Handbuch der Physik</i> , herausgegeben von S. FLÜGGE, Band XXXVI. Atome II »	1009
M. BORN - <i>Physics in my generation</i>	» 1010
L. BIEBERBACH - <i>Einführung in die Theorie der Differentialgleichungen im reellen Gebiet</i> . Die Grundlehren der mathematischen Wissenschaften in Einzeldarstellungen, Band LXXXIII	» 1010
<i>Mechanism for Diffusion in Metals</i> . Series of Selected Papers in Physics »	1011
M. HAÏSSINSKY - <i>La chimie nucléaire et ses applications</i>	» 1238
T. PEARCEY - <i>Tavole dell'integrale di Fresnel a 6 decimali</i>	» 1239
GERHARD HEBER und GERHARD WEBER - <i>Grundlagen der modern Quantenphysik</i>	» 1239
WILHELM SPECHT - <i>Gruppentheorie</i>	» 1520

Fine del Volume VI, Serie X, 1957

PROPRIETÀ LETTERARIA RISERVATA

Direttore responsabile: G. POLVANI

Tipografia Compositori - Bologna

Questo Fascicolo è stato licenziato dai torchi il 7-XII-1957

